

Bureau of Laboratories Equipment Wish List
Requested by CD Bureau
3-28-05

Priority	Laboratory Location	Item	Estimated Cost	Justification
1	Drug analysis Lab- Jamaica Plain	Balance, top loading	\$ 779.00	Replacement of unrepairable equipment needed for testing
2	Drug analysis Lab- Jamaica Plain	Balance, top loading	\$ 779.00	Replacement of unrepairable equipment needed for testing
3	Drug analysis Lab- Jamaica Plain	Balance, top loading, high capacity	\$ 1,400.00	Replacement of unrepairable equipment needed for testing
4	Drug analysis Lab- Amherst	Balance, analytical	\$ 2,300.00	Replacement of unrepairable equipment needed for testing
5	Drug analysis Lab- Jamaica Plain	microscope, stereo	\$ 1,500.00	Replacement of aging equipment (>20 yrs) needed for testing
6	Drug analysis Lab- Jamaica Plain	Light for microscope	\$ 207.00	Replacement of unrepairable equipment needed for testing
7	Drug analysis Lab- Amherst	Refrigerator explosion proof / flammable storage	\$ 1,150.00	Replacement of unrepairable equipment needed for solvent storage
8	Drug analysis Lab- Amherst	Storage safe	\$ 1,361.00	Replacement of unrepairable equipment needed for evidence/ specimen
9	Drug analysis Lab- Amherst	Storage safe	\$ 1,361.00	Replacement of unrepairable equipment needed for evidence/ specimen
10	Molecular Laboratory	QA/QC Instrumentation for PCR temperature validation	\$ 6,500.00	New item to perform mandated QA procedures
11	Infectious Disease Virology Lab Division- Viral Isolation/ Serology	Filtering pump system	\$ 800.00	Replacement of unrepairable equipment needed for test reagent preparation
12	Infectious Disease Virology Lab Division- Viral Serology	Immunoblot autoblotter	\$ 1,500.00	New equipment to automate Lyme Disease Western Blot testing
13	Infectious Disease Virology Lab Division- Viral Isolation	pH meter	\$ 800.00	Replacement of aging equipment needed for preparing testing reagents
14	Infectious Disease Virology Lab Division- Viral Serology	pH meter	\$ 800.00	Replacement of aging equipment needed for preparing testing reagents
15	Infectious Disease Virology Lab Division- Viral Serology	Conductivity meter	\$ 800.00	Replacement of aging equipment needed for preparing testing reagents
16	Infectious Disease Virology Lab Division- Viral Serology	Immunoblot Gel Casting equipment	\$ 3,000.00	Replacement of unrepairable equipment needed for immunoblot testing
17	Drug analysis Lab- Jamaica Plain	Gas chromatograph	\$ 35,336.00	Replacement of aging equipment no longer supported by manufacturer needed for testing
18	Drug analysis Lab- Amherst	Gas chromatograph	\$ 35,336.00	Replacement of aging equipment no longer supported by manufacturer needed for testing
19	Diagnostic Microbiology Lab Division- Pulse Field Gel Electrophoresis Lab	BioRad chef mapper, complete system	\$ 40,000.00	Replacement of unrepairable equipment needed for testing
20	Diagnostic Microbiology Lab Division- Pulse Field Gel Electrophoresis Lab	2- BioRad chef mapper, electrophoresis chamber	\$ 2,500.00	Replacement of unrepairable equipment needed for testing
21	Molecular Laboratory	10- Personal Air Purifying Respirators	\$ 11,157.00	New item for working with viral specimens in a BSL-3 laboratory
22	Drug analysis Lab- Amherst	InfraRed Spectrophotometer with microscope	\$ 42,000.00	Replacement of aging equipment (>20 yrs) needed for testing
23	Drug analysis Lab- Jamaica Plain	InfraRed Spectrophotometer with microscope	\$ 42,000.00	Replacement of aging equipment (>20 yrs) needed for testing
24	Drug analysis Lab- Amherst	15- Storage cabinets/units	\$ 1,335.00	New item for storing equipment and files. Replacement of aging equipment no longer supported by manufacturer needed for testing
25	Drug analysis Lab- Amherst	Gas chromatograph / Mass spectrometer	\$ 74,672.00	
26	Infectious Disease Virology Lab Division- Viral Serology	Computer printer	\$ 900.00	Replacement of aging equipment needed for testing
27	Infectious Disease Virology Lab Division- Viral Serology	Computer printer	\$ 900.00	Replacement of aging equipment needed for testing
			\$ 311,173.00	

Laboratory Equipment List FY2007 4516-1000 rev.4 (20070205)

Bureau of Laboratory Sciences Equipment Needs

Laboratory Location	Manager	Item	Estimated Cost
Central Lab Services- Specimen Receiving	K. Nawn	two door refrigerator \$15,000.00	\$ -
Central Lab Services- Specimen Receiving	K. Nawn	biosafety cabinet \$10,000.00	\$ -
Central Lab Services- Specimen Receiving	K. Nawn	security Camera \$10,000.00	\$ -
Central Lab Services- Specimen Receiving	K. Nawn	proximity reader/swipe door locks (2)* \$11,000.00	\$ -
Microbiology Lab Division - Enterics	J. Fontana	plate reader \$5,000.00	\$ -
Microbiology Lab Division - HIV	A. Kazianis	plate reader (dual-wavelength) \$7,600.00	\$ -
Microbiology Lab Division - HIV	A. Kazianis	plate reader (strip) \$5,200.00	\$ -
Microbiology Lab Division - HIV	A. Kazianis	plate reader (strip) \$5,200.00	\$ -
Microbiology Lab Division - PFGE	J. Fontana	Bio-Rad PFGE module	\$ 25,000.00
Microbiology Lab Division- PFGE	J. Fontana	plate shaker \$1,500.00	\$ -
Microbiology Lab Division - STD Lab	A. Borne	biosafety cabinet \$10,000.00	\$ -
Drug Analysis Lab- Amherst	A. Stevenson	storage safe	\$ 1,361.00
Drug Analysis Lab- Amherst	A. Stevenson	gas chromatograph	\$ 35,336.00
Drug Analysis Lab- Amherst	A. Stevenson	gas chromatograph/ mass spectrometer \$95,000.00	\$ -
Drug Analysis Lab- Amherst	A. Stevenson	infrared spectrophotometer with microscope	\$ 42,000.00
Drug Analysis Lab- Boston	C. Salemi	storage cabinets (2)	\$ 800.00
Molecular and Virology Lab Division - Viral Isolation/Serology	R. Konomi	auto blotter \$10,000.00	\$ -
Molecular and Virology Lab Division - Viral Isolation/Serology	R. Konomi	filtering pump system	\$ 800.00
Molecular and Virology Lab Division - Viral Isolation/Serology	R. Konomi	gel casting equipment \$3,000.00	\$ -
Molecular and Virology Lab Division - Viral Isolation/Serology	R. Konomi	freezer chart recorders \$12,000.00	\$ -
Molecular and Virology Lab Division - Molecular Lab	S. Smole	ABI 7500 sequence detection system \$50,000.00	\$ -
Lab Preparedness Division- Biologic Threat Lab	C. Gauthier	incubator	\$ 5,000.00
Lab Preparedness Division- Biologic Threat Lab	C. Gauthier	centrifuge \$25,000.00	\$ -
Molecular and Virology Lab Division- Molecular Lab	S. Smole	pipette calibration system \$42,500.00	\$ -
Molecular and Virology Lab Division	S. Smole	PAPR breathing tube (6) and face shields(6)	\$ 1,860.00
Microbiology Lab Division- TB Lab	P. Elvin	refrigerator \$6,000.00	\$ -
Equipment List Sub Total			\$ 112,157.00

Rev.4 (20070205)

Laboratory Equipment List FY2007 4516-1000 rev.4 (20070205)

Justification

Defer to FY07 BT rollover or FY08 4516-1000. New. For storage of specimens received for testing
Defer to FY07 BT rollover or FY08 4516-1000. New. For safe specimen handling in the Specimen Receiving Area were none exists.
Defer to FY07 BT rollover or FY08 4516-1000. New. For monitoring of Specimen Receiving Area.

Defer to FY07 BT rollover or FY08 4516-1000. New. For securing access to Specimen Receiving Area.
Defer to FY08 4516-1000. New item for reading results of Shiga toxin tests. Currently using borrowed equipment.
Delete from list. New item for dedicated hepatitis testing to replace older testing methodology.
Delete from list. Replace unrepairable equipment required for hepatitis screening.
Delete from list. Replace unrepairable equipment required for hepatitis screening.
Replace aging equipment for PFGE testing of select agents and surge capacity testing of foodborne pathogens using PulseNet methods.
Delete from list. New item to provide adequate testing capacity
Delete from list. Replace aging equipment (>20 years) needed for testing
Replace unrepairable equipment needed for storage of evidence/ specimens
Replace aging testing equipment no longer supported by manufacturer.
Defer to FY08 4516-1000. Replace aging equipment no longer supported by manufacturer needed for testing
Replace aging equipment needed for testing
New. Storage of equipment and supplies for testing
Deleted not needed. New item to perform new Lyme testing.
Replace aging equipment (>20 years) needed for testing
Deleted not needed. Replace aging equipment used to prepare lab reagents
Deleted not needed. Provide remote monitoring of critical specimen freezers
Defer to FY07 BT rollover. Equipment with greater testing capacity for accurate and expedient identification of biologic threat agents
Replace aging equipment. Provide incubation capability to perform specimen bacteria testing
Delete- purchased in FY06. Replace aging equipment. Provide centrifugation capability to perform specimen testing.
Deleted not needed. Perform QC program required pipette calibration
New safety personal protective equipment.
Delete- purchased in FY06. Replace aging refrigeration equipment for TB specimens



Laboratory Equipment 4516-1000 FY2007- Rev. 3 (20060105)

Bureau of Laboratory Sciences Equipment Needs

Laboratory Location	Manager	Item	Estimated Cost
Central Lab Services- Specimen Receiving	K. Nawn	two door refrigerator \$15,000.00	\$ -
Central Lab Services- Specimen Receiving	K. Nawn	biosafety cabinet \$10,000.00	\$ -
Central Lab Services- Specimen Receiving	K. Nawn	security Camera \$10,000.00	\$ -
Central Lab Services- Specimen Receiving	K. Nawn	proximity reader/swipe door locks (2)* \$11,000.00	\$ -
Microbiology Lab Division - Enterics	J. Fontana	plate reader	\$5,000.00
Microbiology Lab Division - HIV	A. Kazianis	plate reader (dual-wavelength) \$7,600.00	\$ -
Microbiology Lab Division - HIV	A. Kazianis	plate reader (strip) \$5,200.00	\$ -
Microbiology Lab Division - HIV	A. Kazianis	plate reader (strip) \$5,200.00	\$ -
Microbiology Lab Division - PFGE	J. Fontana	Bio-Rad PFGE module	\$ 25,000.00
Microbiology Lab Division- PFGE	J. Fontana	plate shaker \$1,500.00	\$ -
Microbiology Lab Division - STD Lab	A. Borne	biosafety cabinet \$10,000.00	\$ -
Drug analysis Lab- Amherst	A. Stevenson	storage safe	\$ 1,361.00
Drug analysis Lab- Amherst	A. Stevenson	gas chromatograph	\$ 35,336.00
Drug analysis Lab- Amherst	A. Stevenson	gas chromatograph/ mass spectrometer	\$ 95,000.00
Drug analysis Lab- Amherst	A. Stevenson	infrared spectrophotometer with microscope	\$ 42,000.00
Molecular and Virology Lab Division - Viral Isolation/Serology	R. Konomi	auto blotter \$10,000.00	\$ -
Molecular and Virology Lab Division - Viral Isolation/Serology	R. Konomi	filtering pump system	\$ 800.00
Molecular and Virology Lab Division - Viral Isolation/Serology	R. Konomi	gel casting equipment \$3,000.00	\$ -
Molecular and Virology Lab Division - Viral Isolation/Serology	R. Konomi	freezer chart recorders \$12,000.00	\$ -
Lab Preparedness Division- Biologic Threat Lab	C. Gauthier	incubator	\$ 5,000.00
Lab Preparedness Division- Biologic Threat Lab	C. Gauthier	centrifuge \$25,000.00	\$ -
Molecular and Virology Lab Division- Molecular Lab	S. Smole	pipette calibration system \$42,500.00	\$ -
Molecular and Virology Lab Division	S. Smole	PAPR breathing tube (6) and face shields(6)	\$ 1,860.00
Microbiology Lab Division- TB Lab	P. Elvin	refrigerator \$6,000.00	\$ -
Equipment List Sub Total			\$ 211,357.00

Rev.3 (20070105)

Justification

Defer to FY07 BT rollover or FY08 4516-1000. For storage of specimens received for testing
Defer to FY07 BT rollover or FY08 4516-1000. For safe specimen handling in the Specimen Receiving Area were none exists.

Defer to FY07 BT rollover or FY08 4516-1000. For monitoring of Specimen Receiving Area.

Defer to FY07 BT rollover or FY08 4516-1000. For securing access to Specimen Receiving Area.
New item for reading results of Shiga toxin tests. Currently using borrowed equipment.
Delete from list. New item for dedicated hepatitis testing to replace older testing methodology.
Delete from list. Replacement of unrepairable equipment required for hepatitis screening.
Delete from list. Replacement of unrepairable equipment required for hepatitis screening.
Replacement for aging equipment- PFGE testing of select agents and surge capacity testing of foodborne pathogens using PulseNet methods.
Delete from list. New item to provide adequate testing capacity
Delete from list. Replacement for aging equipment (>20 years) needed for testing
Replacement of unrepairable equipment needed for storage of evidence/ specimens
Replacement of aging equipment no longer supported by manufacturer needed for testing
Replacement of aging equipment no longer supported by manufacturer needed for testing
Replacement of aging equipment needed for testing
Deleted not needed. New item to perform new Lyme testing.
Replacement for aging equipment (>20 years) needed for testing
Deleted not needed. Replacement of aging equipment used to prepare lab reagents
Deleted not needed. Provide remote monitoring of critical specimen freezers
Replace aging equipment. Provide incubation capability to perform specimen bacteria testing
Delete- purchased in FY06. Replace aging equipment. Provide centrifugation capability to perform specimen testing.
Deleted not needed. Perform QC program required pipette calibration
New safety personal protective equipment
Delete- purchased in FY06. Replace aging refrigeration equipment for TB specimens

Draft FY2007 Equipment List for 4516-1000

Bureau of Laboratories Equipment Needs

Laboratory Location	Manager	Item	Estimated Cost	Justification
Central Lab Services- Specimen Receiving	K. Nawn	Two door refrigerator	\$ 15,000.00	For storage of specimens received for testing
Central Lab Services- Specimen Receiving	K. Nawn	Bio Safety Cabinet	\$ 10,000.00	For safe specimen handling in the Specimen Receiving Area were none exists.
Central Lab Services- Specimen Receiving	K. Nawn	Security Camera	\$ 10,000.00	For monitoring of Specimen Receiving Area.
Central Lab Services- Specimen Receiving	K. Nawn	Proximity reader/swipe door locks (2)	\$ 11,000.00	For securing access to Specimen Receiving Area.
Diagnostic Microbiology Lab Division - Enterics	J. Fontana	Plate Reader	\$1,000.00	New item for reading results of Shiga toxin tests. Currently using borrowed equipment.
Diagnostic Microbiology Lab Division - HIV	A. Kazianis	Plate Reader (dual-wavelength)	\$7,600.00	New item for dedicated hepatitis testing to replace older testing methodology.
Diagnostic Microbiology Lab Division - HIV	A. Kazianis	plate reader (strip)	\$5,200.00	Replacement of unrepairable equipment required for hepatitis screening.
Diagnostic Microbiology Lab Division - HIV	A. Kazianis	plate reader (strip)	\$5,200.00	Replacement of unrepairable equipment required for hepatitis screening.
Diagnostic Microbiology Lab Division - PFGE	J. Fontana	Bio-Rad PFGE Module	\$ 25,000.00	Replacement for aging equipment- PFGE testing of select agents and surge capacity testing of foodborne pathogens using PulseNet methods.
Diagnostic Microbiology Lab Division- PFGE	J. Fontana	plate shaker	\$ 1,500.00	New item to provide adequate testing capacity
Diagnostic Microbiology Lab Division - STD Lab	A. Borne	Biosafety Cabinet	\$10,000.00	Replacement for aging equipment (>20 years) needed for testing
Drug analysis Lab- Amherst	A. Stevenson	Storage safe	\$ 1,361.00	Replacement of unrepairable equipment needed for storage of evidence/ specimens
Drug analysis Lab- Amherst	A. Stevenson	Gas chromatograph	\$ 35,336.00	Replacement of aging equipment no longer supported by manufacturer needed for testing
Drug analysis Lab- Amherst	A. Stevenson	Gas chromatograph/ mass spectrometer	\$ 95,000.00	Replacement of aging equipment no longer supported by manufacturer needed for testing
Drug analysis Lab- Amherst	A. Stevenson	InfraRed Spectrophotometer with microscope	\$ 42,000.00	Replacement of aging equipment needed for testing
Infectious Disease Virology Lab Division - Viral Isolation/Serology	R. Konomi	auto blotter	\$ 10,000.00	New item to perform new Lyme testing.
Infectious Disease Virology Lab Division - Viral Isolation/Serology	R. Konomi	filtering pump system	\$ 800.00	Replacement for aging equipment (>20 years) needed for testing
Infectious Disease Virology Lab Division - Viral Isolation/Serology	R. Konomi	gel casting equipment	\$ 3,000.00	Replacement of aging equipment used to prepare lab reagents
Infectious Disease Virology Lab Division - Viral Isolation/Serology	R. Konomi	Freezer Chart Recorders	\$ 12,000.00	Provide remote monitoring of critical specimen freezers
Biological Threat Assessment Lab Division	C. Gauthier	Incubator	\$ 5,000.00	Replace aging equipment. Provide incubation capability to perform specimen bacteria testing
Biological Threat Assessment Lab Division	C. Gauthier	Centrifuge	\$ -	Replace aging equipment. Provide centrifugation capability to perform specimen testing-Per M. Izz to be purchased from FERN grant (\$20,000)
Molecular Laboratory Division	S. Smole	Pipette calibration system	\$ 42,500.00	Perform QC program required pipette calibration
TB Laboratory-Isolation	P. Elvin	Refrigerator	\$ 6,000.00	Replace aging equipment. Provide refrigeration for TB specimens
Equipment List Sub Total			\$ 354,497.00	

Rev.2

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Bureau of Laboratories Equipment Needs

Laboratory Location	Item	Estimated Cost	Justification
Central Lab Services- Specimen Receiving	Two door refrigerator	\$ 15,000.00	
Diagnostic Microbiology Lab Division - Enterics	Plate Reader	\$1,000.00	New item for reading results of Shiga toxin tests. Currently using borrowed equipment.
Diagnostic Microbiology Lab Division - HIV	Plate Reader (dual-wavelength)	\$7,600.00	Replacement of unrepairable equipment needed for testing
Diagnostic Microbiology Lab Division - HIV	plate reader (strip)	\$5,200.00	Replacement of unrepairable equipment needed for testing
Diagnostic Microbiology Lab Division - HIV	plate reader (strip)	\$5,200.00	Replacement of unrepairable equipment needed for testing
Diagnostic Microbiology Lab Division - PFGE	Bio-Rad PFGE Module	\$ 25,000.00	Replacement for aging equipment- PFGE testing of select agents and surge capacity testing of foodborne pathogens using PulseNet methods.
Diagnostic Microbiology Lab Division- PFGE	plate shaker	\$ 1,500.00	
Diagnostic Microbiology Lab Division - STD Lab	Biosafety Cabinet	\$10,000.00	Replacement for aging equipment (>20 years) needed for testing
Drug analysis Lab- Amherst	Storage safe	\$ 1,361.00	Replacement of unrepairable equipment needed for evidence/ specimen
Drug analysis Lab- Amherst	Gas chromatograph	\$ 35,336.00	Replacement of aging equipment no longer supported by manufacturer needed for testing
Drug analysis Lab- Amherst	Gas chromatograph/ mass spectrometer	\$ 95,000.00	
Drug analysis Lab- Amherst	InfraRed Spectrophotometer with microscope	\$ 42,000.00	Replacement of aging equipment (>20 yrs) needed for testing
Infectious Disease Virology Lab Division - Viral Isolation/Serology	auto blotter	\$ 10,000.00	New item to perform new Lyme testing.
Infectious Disease Virology Lab Division - Viral Isolation/Serology	filtering pump system	\$ 800.00	Replacement for aging equipment (>15 years) needed for specimen tracking
Infectious Disease Virology Lab Division - Viral Isolation/Serology	gel casting equipment	\$ 3,000.00	Replacement for aging equipment (>20 years) needed for testing
Infectious Disease Virology Lab Division - Viral Isolation/Serology	Freezer Chart Recorders	\$ 12,000.00	New item to record temperature data for Liquid Nitrogen System
Equipment List Sub Total		\$257,997.00	

Rev.1

Justification

For storage of specimens received for testing

New item for reading results of Shiga toxin tests. Currently using borrowed equipment.

New item for dedicated hepatitis testing to replace older testing methodology.

Replacement of unrepairable equipment required for hepatitis screening.

Replacement of unrepairable equipment required for hepatitis screening.

Replacement for aging equipment- PFGE testing of select agents and surge capacity testing of foodborne pathogens using PulseNet methods.

New item to provide adequate testing capacity

Replacement for aging equipment (>20 years) needed for testing

Replacement of unrepairable equipment needed for storage of evidence/specimens

Replacement of aging equipment no longer supported by manufacturer needed for testing

Replacement of aging equipment no longer supported by manufacturer needed for testing

Replacement of aging equipment needed for testing

New item to perform new Lyme testing.

Replacement for aging equipment (>20 years) needed for testing

Replacement of aging equipment used to prepare lab reagents

Provide remote monitoring of critical specimen freezers

Bureau of Laboratories Equipment Needs

Laboratory Location	Item	Estimated Cost	Justification
Central Lab Services- Specimen Receiving	Two door refrigerator	\$ 15,000.00	
Diagnostic Microbiology Lab Division - Enterics	Plate Reader	\$1,000.00	New item for reading results of Shiga toxin tests. Currently using borrowed equipment.
Diagnostic Microbiology Lab Division - HIV	Plate Reader (dual-wavelength)	\$7,600.00	Replacement of unrepairable equipment needed for testing
Diagnostic Microbiology Lab Division - HIV	plate reader (strip)	\$5,200.00	Replacement of unrepairable equipment needed for testing
Diagnostic Microbiology Lab Division - HIV	plate reader (strip)	\$5,200.00	Replacement of unrepairable equipment needed for testing
Diagnostic Microbiology Lab Division - PFGE	Bio-Rad PFGE Module	\$ 25,000.00	Replacement for aging equipment- PFGE testing of select agents and surge capacity testing of foodborne pathogens using PulseNet methods.
Diagnostic Microbiology Lab Division- PFGE	plate shaker	\$ 1,500.00	
Diagnostic Microbiology Lab Division - STD Lab	Biosafety Cabinet	\$10,000.00	Replacement for aging equipment (>20 years) needed for testing
Drug analysis Lab- Amherst	Balance, analytical	\$ 2,300.00	Replacement of unrepairable equipment needed for testing
Drug analysis Lab- Amherst	Storage safe	\$ 1,361.00	Replacement of unrepairable equipment needed for evidence/ specimen
Drug analysis Lab- Amherst	Gas chromatograph	\$ 35,336.00	Replacement of aging equipment no longer supported by manufacturer needed for testing
Drug analysis Lab- Amherst	Gas chromatograph/ mass spectrometer	\$ 95,000.00	
Drug analysis Lab- Amherst	InfraRed Spectrophotometer with microscope	\$ 42,000.00	Replacement of aging equipment (>20 yrs) needed for testing
Drug analysis Lab- Amherst	15- Storage cabinets/units	\$ 1,335.00	New item for storing equipment and files.
Drug analysis Lab- Jamaica Plain	Gas chromatograph	\$ 35,336.00	Replacement of aging equipment no longer supported by manufacturer needed for testing
Infectious Disease Virology Lab Division - Viral Isolation/Serology	auto blotter	\$ 10,000.00	New item to perform new Lyme testing.
Infectious Disease Virology Lab Division - Viral Isolation/Serology	filtering pump system	\$ 800.00	Replacement for aging equipment (>15 years) needed for specimen tracking
Infectious Disease Virology Lab Division - Viral Isolation/Serology	gel casting equipment	\$ 3,000.00	Replacement for aging equipment (>20 years) needed for testing
Infectious Disease Virology Lab Division - Viral Isolation/Serology	Freezer Chart Recorders	\$ 12,000.00	New item to record temperature data for Liquid Nitrogen System
Equipment List Sub Total		\$296,968.00	

Initial list

Justification

For storage of specimens received for testing

New item for reading results of Shiga toxin tests. Currently using borrowed equipment.

New item for dedicated hepatitis testing to replace older testing methodology.

Replacement of unrepairable equipment required for hepatitis screening.

Replacement of unrepairable equipment required for hepatitis screening.

Replacement for aging equipment- PFGE testing of select agents and surge capacity testing of foodborne pathogens using PulseNet methods.

New item to provide adequate testing capacity

Replacement for aging equipment (>20 years) needed for testing

Replacement of unrepairable equipment needed for evidence/ specimen

Replacement of unrepairable equipment needed for storage of evidence/ specimens

Replacement of aging equipment no longer supported by manufacturer needed for testing

Replacement of aging equipment no longer supported by manufacturer needed for testing

Replacement of aging equipment needed for testing

New item for storing equipment and files.

Replacement of aging equipment needed for preparing testing reagents

New item to perform new Lyme testing.

Replacement for aging equipment (>20 years) needed for testing

Replacement of aging equipment used to prepare lab reagents

Provide remote monitoring of critical specimen freezers